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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/663,166	09/15/2003		Kevin Lahey	SONY-26900	2823
28960	7590	05/02/2006		EXAMINER	
		OWENS LLP	HO, DUC CHI		
162 NORTH SUNNYVA				ART UNIT	PAPER NUMBER
	•			2616	
				DATE MAILED: 05/02/2006	4

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
Office Action Summers	10/663,166	LAHEY ET AL.				
Office Action Summary	Examiner	Art Unit				
	Duc C. Ho	2616	·			
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet wi	th the correspondence addres	:s			
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING [- Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC .136(a). In no event, however, may a red d will apply and will expire SIX (6) MON te, cause the application to become AB	CATION. pply be timely filed THS from the mailing date of this commun ANDONED (35 U.S.C. § 133).				
Status		•				
1)⊠ Responsive to communication(s) filed on 23 / 2a)⊠ This action is FINAL . 2b)□ Thi	February 2006. is action is non-final.					
3) Since this application is in condition for allowed	application is in condition for allowance except for formal matters, prosecution as to the ments is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1,3-18 and 20-71</u> is/are pending in t	he application	•				
4a) Of the above claim(s) is/are withdra		•				
5) Claim(s) is/are allowed.						
6) Claim(s) 1,3-32,34-45,47-59 and 61-71 is/are	rejected.					
7)⊠ Claim(s) <u>33,46 and 60</u> is/are objected to.		• • •				
8) Claim(s) are subject to restriction and/	or election requirement.	•				
Application Papers						
9) The specification is objected to by the Examin	or.					
10) The drawing(s) filed on is/are: a) ac		ov the Examiner.				
Applicant may not request that any objection to the	•					
Replacement drawing sheet(s) including the correct	ction is required if the drawing(s) is objected to. See 37 CFR 1.	121(d).			
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached	Office Action or form PTO-19	52.			
Priority under 35 U.S.C. § 119		·				
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	n priority under 35 U.S.C. §	119(a)-(d) or (f).				
1. Certified copies of the priority documen	ts have been received.					
2. Certified copies of the priority documen	ts have been received in A	oplication No				
Copies of the certified copies of the price		received in this National Stag	le			
application from the International Burea						
* See the attached detailed Office action for a list	t of the certified copies not i	received.				
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Attachment(s)		•	٠			
1) Notice of References Cited (PTO-892)		ummary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)) 5) 🔲 Notice of In)/Mail Date formal Patent Application (PTO-152))			
Paper No(s)/Mail Date	6)					

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Claim Objections

1. Claims 5-7 are objected to because of the following informalities: Claim 5 depends on a canceled claim.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

- 2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102(e) that form the basis for the rejections under this section made in this Office action:
 - (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 18, 20-29 are rejected under 35 U.S.C. 102(e) as being anticipated by Molteni et al. (U.S. 2004/0066759), hereinafter referred to as Molteni.

Regarding claim 18, Molteni discloses method for a wireless station to determine network metrics prior to associating with an access point of a wireless network.

obtaining a signal from each access point available to the mobile device, wherein the signal includes source information (the mobile station 111-fig.1 obtains signal from AP1 and AP2 in the form of a beacon MAC(L2) that provides information for access points, see 0031); and

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obtaining characteristic information about each access point and characteristics of service provided by the access point using the source information (the mobile station is able to obtain information as required by station for establishing and maintaining and association with the AP);

determining a preferred access point by comparing the characteristic information to criteria and determining the access point which most closely matches the criteria (the mobile station is able to compare the signal strength of the access points and deciding upon which one to associate with, see 0033. The access point to be associated with may be the one that matches a criteria such as previous association, see 0145).

establishing a connection with the preferred access point (the mobile station is able to establish a connection with a preferred access point); and

continuously repeating obtaining a beacon signal, obtaining characteristic information and determining a preferred access point (see 0082).

Regarding claim 20, the connection is established using communication complying with an IEEE 802.11 standard.

Regarding claim 21, information provided from the beacon signal of Molteni is resident within the SSID, and inherently include an address or source address, see 0033.

Regarding claim 22, the address of an access point of Molteni may be a URL address.

Regarding claim 23, the address of an access point of Molteni may be a Ipv6 address, see 0029.

Regarding claim 24, the information of Molteni includes L2 information, and network layer (L3) information, see 0010.

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Regarding claim 25, an access point of Molteni is available if the mobile station is within a range of signal strength to communicate with the access point.

Regarding claim 26, the characteristics of service of Molteni includes cost of access, see 0075.

Regarding claim 27, information of Molteni obtained from an access point at the mobile station is possible without forming a connection to the access point.

Regarding claim 28, Minborg discloses the use of Ipv6 address for associating application so that the mobile station of Molteni could employ separate address for requesting each application.

Regarding claim 29, the mobile station of Molteni is capable of using the separate address for applications provided by Minborg with separate connection.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

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not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103© and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 1, 3-14, 17, 71, 30-32, 34-45, 47-55, 57-59, and 61-69 are rejected under 35 U.S.C. 103(a) as being unpatentable over Molteni, in view of Minborg et al. (US 2003/0135586), hereinafter referred to as Minborg.

Regarding claim 1, Molteni discloses method for a wireless station to determine network metrics prior to associating with an access point of a wireless network.

obtaining a beacon signal from each access point available to the mobile device, wherein the signal includes source information (the mobile station 111-fig.1 obtains signal from AP1 and AP2 in the form of a beacon MAC(L2) that provides information for access points, see 0031); and

using the source information to obtain characteristic information about each access point and characteristics of service provided by the access point (the mobile station is able to obtain information as required by station for establishing and maintaining and association with the AP).

Molteni, however, does not teach associating a separate communication address with each unique application that the mobile device uses.

One skill in the art would recognize the advantage of employing a separate address for each unique application that the mobile device uses, that is the set-up phase would utilize less bandwidth in communicating the requested applications, and therefore, generating an effective communication for the mobile network.

Minborg discloses method and apparatus for exchange of information in a communication network. In one embodiment of Minborg, a requested application has a

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parameter that represents a service address, see 0018. In other words, Minborg teaches the claimed limitation "a separate address with each unique application".

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine Molteni with Minborg.

The suggestion/motivation for doing so would have been to utilize less bandwidth in communicating the requested applications, and therefore, generating an effective communication for the mobile network.

Therefore, it would have been obvious to combine Minborg with Molteni to obtain the invention as specified in claim 1.

Regarding claim 3, the mobile station of Molteni is able to compare the signal strength of the access points and deciding upon which one to associate with, see 0033.

Regarding claim 4, the access point of Molteni to be associated with may be the one that matches a criteria such as previous association, see 0145.

Regarding claim 5, information provided from the beacon signal of Molteni is resident within the SSID, and inherently include an address or source address, see 0033.

Regarding claim 6, the address of an access point of Molteni may be a URL address.

Regarding claim 7, the address of an access point of Molteni may be a lpv6 address, see 0029.

Regarding claim 8, the information of Molteni includes L2 information, and network layer (L3) information, see 0010.

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Regarding claims 9, and 70 Minborg discloses the use of Ipv6 address for associating application so that the mobile station of Molteni could employ separate address for requesting each application.

Regarding claim 10, the mobile station of Molteni is capable of using the separate address for applications provided by Minborg with separate connection.

Regarding claim 11, information of Molteni obtained from an access point at the mobile station is possible without forming a connection to the access point.

Regarding claim 12, an access point of Molteni is available if the mobile station is within a range of signal strength to communicate with the access point.

Regarding claim 13, the characteristics of service of Molteni includes cost of access, see 0075.

Regarding claim 14, this claim has similar limitations as claim 1. Therefore, it is rejected under Molteni-Minborg for the same reasons set forth in the rejection of claim 1.

Regarding claim 17, Molteni discloses method for a wireless station to determine network metrics prior to associating with an access point of a wireless network.

obtaining a signal from each access point available to the mobile device, wherein the signal includes source information (the mobile station 111-fig.1 obtains signal from AP1 and AP2 in the form of a beacon MAC(L2) that provides information for access points, see 0031); and

obtaining characteristic information about each access point and characteristics of service provided by the access point using the source information (the mobile station is able to obtain information as required by station for establishing and maintaining and association with the AP);

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determining a preferred access point by comparing the characteristic information to criteria and determining the access point which most closely matches the criteria (the mobile station is able to compare the signal strength of the access points and deciding upon which one to associate with, see 0033. The access point to be associated with may be the one that matches a criteria such as previous association, see 0145).

establishing a connection with the preferred access point (the mobile station is able to establish a connection with a preferred access point).

Regarding claim 71, Molteni discloses the step of repeating, therefore, the system of Molteni is capable of continuous repeating obtaining a beacon signal, and information, and a preferred access point.

Regarding claim 30, Molteni discloses method for a wireless station to determine network metrics prior to associating with an access point of a wireless network.

a communication interface configured to receive communications from access points available to the mobile device, the communications including a beacon signal from each available access point, wherein the beacon signal includes source information (the mobile station 111-fig. 3A includes a transceiver interface 303, see 0031-0033, and 0037-0041); and

a controller (the mobile station 111-fig.3A includes a host processor 307) coupled to the communications interface to obtain characteristic information, from the source information, about each access point and characteristics of service provided by the access point (the processor 307 coupled to the interface 303 for obtaining information about each access point and characteristics of service provided by the access point using the information, see 0031-0041).

Molteni, however, does not teach the controller associates a separate communication address with each unique application that the mobile device uses.

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One skill in the art would recognize the advantage of employing a separate address for each unique application that the mobile device uses, that is the set-up phase would utilize less bandwidth in communicating the requested applications, and therefore, generating an effective communication for the mobile network.

Minborg discloses method and apparatus for exchange of information in a communication network. In one embodiment of Minborg, a requested application has a parameter that represents a service address, see 0018. In other words, Minborg teaches the claimed limitation "a separate address with each unique application".

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine Molteni with Minborg.

The suggestion/motivation for doing so would have been to utilize less bandwidth in communicating the requested applications, and therefore, generating an effective communication for the mobile network.

Therefore, it would have been obvious to combine Minborg with Molteni to obtain the invention as specified in claim 30.

Regarding claims 31-32, and 34-42. These claims have the same limitations as claims 3-4, and 5-8, 11-13, 9-10, respectively. Therefore, these claims are rejected under Molteni for the same reason set forth in the rejection of claims 3-4, and 5-8, 11-13, 9-10, respectively.

Regarding claim 43, this claim has the same limitations as claim 30. Therefore, claim 43 is rejected under Molteni-Minborg for the same reason set forth in the rejection of claim 30.

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Regarding claims 44-45, and 47-55. These claims have the same limitations as claims 3-4, and 5-8, 11-13, 9, respectively. Therefore, these claims are rejected under Molteni for the same reason as of claims 3-4, and 5-8, 11-13, 9, respectively.

Regarding claim 57, Molteni discloses method for a wireless station to determine network metrics prior to associating with an access point of a wireless network.

a plurality of access points (the access point AP1, AP2) each including:

a wireless interface through which access point communications are sent and received including a beacon signal having source information (each inherently includes a wireless interface through which communications are sent including a beacon signal having information, see 0031); and

a server interface configured to couple to one or more internet servers to provide internet communications with the servers for devices communicating through the wireless interface (each access point, i.e. the AP1 inherently includes a server interface so as to provide internet connection with the service X-fig. 1);

a mobile device (a mobile station 111-fig. 3A inherent includes a manager managing connectivity for the mobile device) configured to communicate with the wireless interface and including a network connection manager which adaptively manages connectivity for the mobile device, the network connection manager comprising:

a communications interface (an interface 303-fig. 3A) configured to receive the access point communications; and

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a controller (a processor 307-fig.3A) coupled to the communications interface to obtain characteristic information about each access point available to the mobile device and characteristics of service provided by the access points using the source information.

Molteni, however, does not teach the controller associates a separate communication address with each unique application that the mobile device uses.

One skill in the art would recognize the advantage of employing a separate address for each unique application that the mobile device uses, that is the set-up phase would utilize less bandwidth in communicating the requested applications, and therefore, generating an effective communication for the mobile network.

Minborg discloses method and apparatus for exchange of information in a communication network. In one embodiment of Minborg, a requested application has a parameter that represents a service address, see 0018. In other words, Minborg teaches the claimed limitation "a separate address with each unique application".

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine Molteni with Minborg.

The suggestion/motivation for doing so would have been to utilize less bandwidth in communicating the requested applications, and therefore, generating an effective communication for the mobile network.

Therefore, it would have been obvious to combine Minborg with Molteni to obtain the invention as specified in claim 57.

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Regarding claims 58-59, and 61-69. These claims have the same limitations as claims 3-4, and 5-8, 11-13, 9-10, respectively. Therefore, these claims are rejected under Molteni for the same reason as of claims 3-4, and 5-8, 11-13, 9-10, respectively.

7. Claims 15-16, and 56 are rejected under 35 U.S.C. 103(a) as being unpatentable over Molteni, in view of Minborg, and further in view of Chandranmenon et al. (US 2004/0077341).

Regarding claim 15, Molteni and Minborg discloses all claim limitations, except a mobile device has a plurality of interfaces so that the mobile device can send communications through one of a plurality of interfaces based on the separated Ipv6 address and corresponding application.

One skill in the art would recognize the advantage of having a mobile device to be equipped with multiple interfaces such as kind of wireless (e.g., 3G and 802.11) and wired (e.g., Ethernet) network interfaces in order to provide separate applications to respective access points.

Chandranmenon discloses multi-interface mobility client. Figure 2 illustrates a plurality of interfaces for mobile device, see 0028-0035.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine Molteni-Minborg with Chandranmenon.

The suggestion/motivation for doing so would have been to provide communications from the mobile device through one of interfaces based one the separates Ipv6 address of each access point and its corresponding application.

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Therefore, it would have been obvious to combine Chandranmenon with Molteni-Minborg to obtain the invention as specified in claim 15.

Regarding claim 16, please see the rejection of claim 15. The mobile device is capable of receiving communications through one of plurality of interfaces.

Regarding claim 56, Molteni-Minborg discloses all claimed limitations, except (1) a plurality of interfaces each configured to send and receive communications for one of a plurality of applications used by the mobile device, and (2) a controller coupled to the plurality of interfaces.

One skill in the art would recognize the advantage a controller of a mobile device is to be equipped with multiple interfaces such as kind of wireless (e.g., 3G and 802.11) and wired (e.g., Ethernet) network interfaces in order to provide separate applications to respective access points corresponding to the Ipv6 address.

Chandranmenon discloses multi-interface mobility client. Figure 2 illustrates a plurality of interfaces for mobile device, see 0028-0035, wherein the mobility client function application 106 as a controller couples to the plurality of interfaces in order to provide applications corresponding to its access points.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine Molteni-Minborg with Chandranmenon.

The suggestion/motivation for doing so would have been to provide a mobile device an advantage-that is to process at least one application through a particular interface, and that interface is configured corresponding with the access point's Ipv6 address.

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Therefore, it would have been obvious to combine Chandranmenon with Molteni-Minborg to obtain the invention as specified in claim 56.

Allowable Subject Matter

8. Claims 33, 46, and 60 are objected to as being independent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc Ho whose telephone number is (571) 272-3147. The examiner can normally be reached on Monday through Friday from 7:00 am to 3:30 pm.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin, can be reached on (571) 272-3134.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2600.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

11. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patent Examiner

Duc Ho

04-28-06